



**O2-1
OSCILLOSCOPE
4 CHANNELS**



O2-1 OSCILLOSCOPE

Introducing **Launch X431 O2-1 Oscilloscope**, an optional add-on module which turns your X-431 Throttle and X-431 PAD II into a 4 channel Lab Scope. By analyzing waveforms, a variety of faults on sensors, actuators, circuits and electronic control units can be discovered – saving time on vehicle diagnosis and cutting down on unnecessary parts replacement costs. Electrical signals and their waveforms can be recorded, displayed, compared and examined based on the following parameters: amplitude (the maximum voltage of a signal), shape (the form of the signal), pulse width (the duty cycle or time interval of the signal) and array (the repetition characteristics of the signal).



Features

- | Extensive library of known good waveforms, waveform auto set up on all 4 channels
- | Independent ground on each channel – allows for clean signal without interference or potentially damaging feedback
- | High quality twist & lock BNC connectors
- | Easy to use intuitive interface
- | Includes an array of conventional ignition adapters
- | Includes ignition set-up pre-selects
- | Ultra-fast capture of “glitch” occurrences with advanced triggers
- | Built-in square wave signal generator ensures verification of accuracy & calibration
- | Record, save & print stored waveforms
- | Playback of waveform can be slowed down for observation and analysis
- | Separate scopebox module allows for remote display. Viewing via single usb cable – view scopebox readings on the PAD II from a far site.
- | Plug & play – software comes pre-loaded in all the throttle and PAD II units; nothing to install!

Specifications

- | Channels: 4
- | Bandwidth: 100MHz
- | Rising time: $\leq 3.5\text{ns}$ (typical)
- | Max. sample rate: 1Gbps(for four channels)
- | Input impedance: $1\text{M}\Omega \pm 1.5\%$
- | Storage depth: 50M(for four channels)
- | Sample bit: 8bit
- | Horizontal precision: 3%
- | Horizontal scale: 5mV~10V
- | Horizontal offset range: $\pm 2.5\text{V}$ (in case of probe switch “x1”, $< 500\text{mV/div}$), $\pm 120\text{V}$ (in case of probe switch “x1”, $\geq 500\text{mV/div}$)
- | Invert: Support
- | Coupling: DC, AC
- | Timebase: 50ns~1ks (1 channel), 10 200ns~1ks (4 channels)
- | Timebase precision: 20ppm
- | Acquisition mode: Normal
- | Line decoding: CAN, LIN
- | Trigger type: Edge, Pulse width
- | Trigger mode: Normal, Auto and Single SEQ
- | Trigger Coupling: DC, Noise rejection
- | Display: YT, Zoom, Roll
- | Roll mode: 200ms/div~1000s/div
- | Automotive: Circuits, sensor, actuators, ignition
- | Working temperature: $0^{\circ} \sim 50^{\circ}$
- | Storage temperature: $-30^{\circ} \sim 70^{\circ}$